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The following is a complete listing of all claims in the application, with an indication of the status of each:

Listing of claims:

- 1 (Currently amended). A method to diagnose equipment failures using an integrated approach of case-based reasoning and reliability analysis, comprising the steps of:
 - maintaining a case base database for the equipment;
 - receiving an equipment problem description from a user;
 - for each component in the equipment, calculating failure probability based on at least one of historical failure data ~~and/or~~ and published failure data of the components;
 - for each component, calculating probability of matching problem description assuming that a component fails, using case based reasoning;
 - for each component, combining the calculated probabilities to compute an overall failure probability given said at least one of the historical failure data and data ~~and/or~~ published failure data, and said problem description; and
 - composing a list of component recommendations ~~by ranking components~~ ranked by their overall failure probabilities computed for each component, and retrieving corresponding past solutions from a said case base database.
- 2 (Currently amended). The method of claim 1, further comprising the step of producing a single list of suggested failed components based on at least one of historical failure data ~~and/or~~ and published failure data as observed by said user of said equipment, and said problem description received from said user.